SEQUENCE LISTING

(1) GENERAL INFORMATION:

(iii) NUMBER OF SEQUENCES: 5

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 323 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

TyrSerArgG luLysAsnGlnProLysProSerProLysArgGluSer
151015
GlyGluGluPheArgMetGluLysLeuAsnGlnLeuTrpGluLysAla
20 2530
GlnArgLeuHisLeuProProValArgLeuAlaGluLeuHisAlaAsp
354045
LeuLysIleGlnGluArgAspGluLeuAl aTrpLysLysLeuLysLeu
505560
AspGlyLeuAspGluAspGlyGluLysGluAlaArgLeuIleArgAsn
657075 80
LeuAsnValIleLeuAlaLysTyrGlyLeuAspGlyLysLysAspAla
859095
ArgGlnValThrSerAsnSerLeuSerGlyThrGlnGluAspGly Leu
100105110
AspAspProArgLeuGluLysLeuTrpHisLysAlaLysThrSerGly
115120125
LysPheSerG lyGluGluLeuAspLysLeuTrpArgGluPheLeuHis
130135140
HisLysGluLysValHisGluTyrAsnValLeuLeuGluThrLeuSer
145150 155160
ArgThrGluGluIleHisGluAsnValIleSerProSerAspLeuSer
165170175
AspIleLysGlySerValLeuHisSe rArgHisThrGluLeuLysGlu
180185190
LysLeuArgSerIleAsnGlnGlyLeuAspArgLeuArgArgValSer
195200 205
HisGlnGlyTyrSerThrGluAlaGluPheGluGluProArgValIle
210215220
AspLeuTrpAspLeuAlaGlnSerAlaAsnLeuThrAspLysGluLeu
225 230235240
GluAlaPheArgGluGluLeuLysHisPheGluAlaLysIleGluLys
245250255
HisAsnH isTyrGlnLysGlnLeuGluIleAlaHisGluLysLeuArg
260265270
HisAlaGluSerValGlyAspGlyGluArgValSerArgSerArgGlu
275 280285
LysHisAlaLeuLeuGluGlyArgThrLysGluLeuGlyTyrThrVal
290295300
LysLysHisLeuGlnAspLeuSerGlyArgIleSe rArgAlaArgHis
305310315320
AsnGluLeu

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 209 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

ProArgLeuGluLysLeuTrpHisLysAlaLysThrSerGlyLysPhe
151015
SerGlyGluGluLeuAspLysLeuTrpArgGluPheLeu HisHisLys

202530
GluLysValHisGluTyrAsnValLeuLeuGluThrLeuSerArgThr
354045
GluG luIleHisGluAsnValIleSerProSerAspLeuSerAspIle
505560
LysGlySerValLeuHisSerArgHisThrGluLeuLysGluLysLeu
657 07580
ArgSerIleAsnGlnGlyLeuAspArgLeuArgArgValSerHisGln
859095
GlyTyrSerThrGluAlaGl uPheGluGluProArgValIleAspLeu
100105110
TrpAspLeuAlaGlnSerAlaAsnLeuThrAspLysGluLeuGluAla
115120 125
PheArgGluGluLeuLysHisPheGluAlaLysIleGluLysHisAsn
130135140
HisTyrGlnLysGlnLeuGluIleAlaHisGluLysLeuArgHisAla
145150155160
GluSerValGlyAspGlyGluArgValSerArgSerArgGluLysHis
165170175
A laLeuLeuGluGlyArgThrLysGluLeuGlyTyrThrValLysLys
180185190
HisLeuGlnAspLeuSerGlyArgIleSerArgAlaArgHisAsnGlu
19 5200205
Leu

(2) INFORMATION FOR SEQ ID NO: 3:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 33 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (oligonucleotide)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
CCGCGTGGAT CCCCCAGGCTGGAAAAGCTGTGG33

(2) INFORMATION FOR SEQ ID NO: 4:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 35 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (oligonucleotide)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
TCAATGAATTCTCAGAGTT CGTTGTGCCGAGCTCT35

(2) INFORMATION FOR SEQ ID NO: 5:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 205 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: protein
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
ProArgLeuGluLysLeuTrpHisLysAlaLysThr SerGlyIleSer
151015
ValArgLeuThrSerCysAlaArgValLeuHisTyrLysGluLysIle
2025 30
HisGluTyrAsnValLeuLeuAspThrLeuSerArgAlaGluGluGly
354045
TyrGluAsnLeuLeuSerProSerAspMetThrHisIleLysSerAsp
50 5560
ThrLeuAlaSerLysHisSerGluLeuLysAspArgLeuArgSerIle
65707580
AsnGlnGlyLeuAspArg LeuArgLysValSerHisGlnLeuArgPro
859095

AlaThrGluPheGluGluProArgValIleAspLeuTrpAspLeuAla
100 105110
GlnSerAlaAsnPheThrGluLysGluLeuGluSerPheArgGluGlu
115120125
LeuLysHisPheGluAlaLysIleGluLysHisAsn HisTyrGlnLys
130135140
GlnLeuGluIleSerHisGlnLysLeuLysHisValGluSerIleGly
145150155160
AspProGluHisIleSerArgAsnLysGluLysTyrValLeuLeuGlu
165170175
GluLysThrLysGluLeuGlyTyrLysValLysLysHisLeuGlnAsp
180185190
LeuSerSerArgValSerArgAlaArgHisAsnGluLeu
195200

The above description is meant to be illustrative of the present invention, and not limiting thereof. All explanations of the inventors theory of the invention are for illustrative purposes only. It is the inventors' intention that the scope of their invention be defined solely by the following claims.